# INSTALL GUIDE

**U.S.A. Model**

## KE-4 KEYLESS ENTRY SYSTEM

REMOTE STARTERS

CAR ALARMS

# ULTRA START

## WWW.ULTRASTARTERS.COM

**Technical Support 866-698-5872 ext 0**

**Support@ultrastarters.com**

Note: Some features may not be available on certain models.

# KE-4

# Installation Manual

## System Contents

- Control Module
- Four Button Remote
  Transmitter(s)
- 10-Pin Harness
- Installation Guide
- Owners Manual

## Key Features

- Keyless Entry With Drivers Door Priority
- Trunk Release Output
- Positive Park Light Output
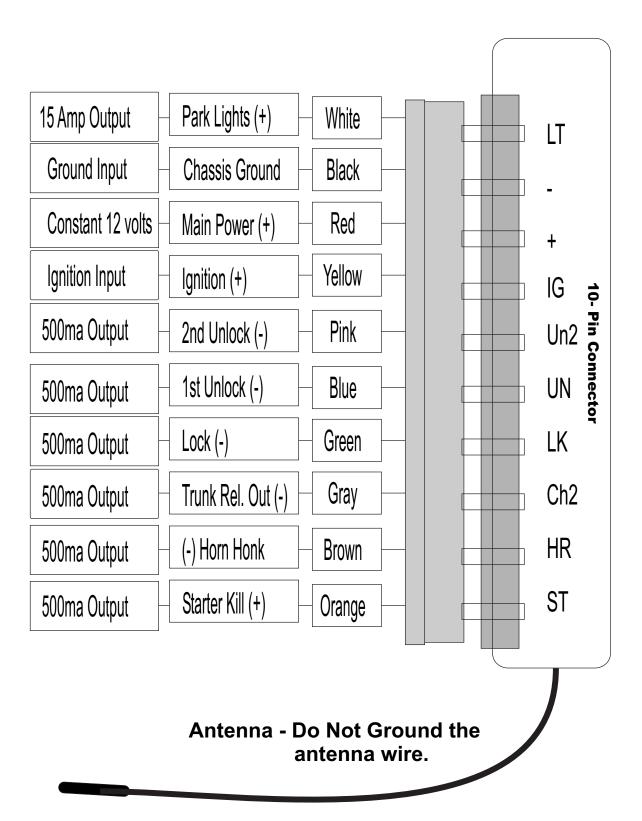- Panic Mode
- Horn Honk Output
- Starter Disable Output

## Pre-Installation
**BEFORE STARTING:**
- Discuss the optional features of the alarm with the owner of the vehicle.
- Do a walk around of the vehicle. (Note any scratches or dents)
- Check with the vehicle's owner before installation of LED light.
- See if the owner has a preference for the location of the Valet Switch.
- Have vehicle wiring information ready before starting installation.

## Installation Tips

- Leave a window open to avoid locking the key's in the vehicle.
- Use seat covers and floor mats to protect the vehicle.
- Avoid disconnecting the battery.
- Unplug the dome light fuse to prevent battery drain.
- Test all connections with a voltmeter or circuit safe test light.
- Install the wire harness so that it is free of any moving parts.
- Solder all connections. Avoid using scotch-lok and crimp connectors.
- Pull the siren and optional hood pin wires  through a factory rubber grommet
  into the engine compartment.(Do not use the steering boot).
- Install the siren away from high heat sources and direct exposer to water.

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| | | | |
|---|---|---|---|
| 15 Amp Output | Park Lights (+) | White | LT |
| Ground Input | Chassis Ground | Black | - |
| Constant 12 volts | Main Power (+) | Red | + |
| Ignition Input | Ignition (+) | Yellow | IG |
| 500ma Output | 2nd Unlock (-) | Pink | Un2 |
| 500ma Output | 1st Unlock (-) | Blue | UN |
| 500ma Output | Lock (-) | Green | LK |
| 500ma Output | Trunk Rel. Out (-) | Gray | Ch2 |
| 500ma Output | (-) Horn Honk | Brown | HR |
| 500ma Output | Starter Kill (+) | Orange | ST |

10- Pin Connector

**Antenna - Do Not Ground the antenna wire.**

**\*\*\*500ma outputs are low current and are designed to activate relays.**

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# Installation Manual

## STEP 1 - The following wires MUST be connected for proper operation.

| Red | 12vt Power | (+) 15amp Input | Constant 12vt power sourse. |
|---|---|---|---|
| Yellow | Ignition | (+) 12volt Input | Main ignition wire. |
| White | Park Lights | (+) 15amp Output | Connect to positive park lights |
| Black | Ground | (-) Input | Connect to chassis ground. |
| Green | Lock Output | (-)500ma Output | Connect to door **lock** relay. |
| Blue | Unlock Output | (-)500ma Output | Connect to door **unlock** relay. |

### Optional Connections

| Orange | St.Disable | (-)500ma Output | Connect to Starter Disable relay. |
|---|---|---|---|
| Brown | Horn Output | (-)500ma Output | Connect to horn relay. |
| Grey | Trunk Output | (-)500ma Output | Connect to Trunk Release relay. |
| Pink | 2nd Unlock | (-)500ma Output | Connect when installing Driver's Door Priority. |

## STEP 2 - CONNECT AND MOUNT THE MODULE

***Plug the Connectors into the Module***. Press the transmitter buttons to check for proper operation. Once it is determined that everything is working correctly the module can be mounted.

*\*\*\*Before plugging the module in make sure that Ignition Key is in the OFF position\*\*\**

***Mount the module*** by selecting a location under the dash that is secure. Be certain that the module does not obstruct any  serviceable  areas. The module must be free from  moving parts such as brake, clutch and gas pedals and the linkages that are attached to them.

## Basic remote operations

**Lock**       **Unlock**

**Trunk**



See Owners Manual for more transmitter operations

## TRANSMITTER PROGRAMMING

**To add additional transmitters and delete existing transmitter code(s) from memory.**
**1)** Turn the ignition **On-Off-On-Off-On-Off-On-Off.** The park lights will flash twice.
**2)** Press the Lock button on the transmitters to be programmed.
**3)** The park lights will flash once, each time a new transmitter is learned.

\*\*\* If this does not happen wait ten seconds and repeat steps 1-3.
*Note: Each system can store a maximum of three transmitter codes in memory.*

### Transmitter Program on "Power Up"
**1)** Plug in the module. (Leave the ignition in the Off position).
**2)** Press the lock button on each of the transmitters to be programmed.
**3)** The park lights will flash once each time a new transmitter code is learned.

**Note:** Previous transmitters that are not programmed at this time will deleted from memory.

## SYSTEM RESET

**Reset To Factory Default Settings.**
1)  Make sure  ignition is in the OFF position.
2)  Turn the ignition key ON -  **leaving key in the ON position.**
3)  Press the transmitter buttons as follows. **Trunk-Lock-Unlock-Trunk.**
4) The system will respond by flashing the park lights three times

*The system is now set to factory default settings.*

## QUICK VIEW PROGRAM MENU

**Entering** T**he Program Menu**
1)  Make sure  ignition is in the OFF position.
2)  Turn the ignition key ON -  **leaving key in the ON position.**
3)  Press the transmitter buttons in the appropriate sequence.
4)  After ten seconds the system will automatically exit Program Mode.
To change a Programmable Feature press the transmitter buttons as follows.

*\*\*\* Default settings are shown in bold lettering.*

| Passive / Active Arming | **Lock-Unlock-Lock-Unlock** | Passive | **Active** |
|---|---|---|---|
| Passive / Active Locks | **Unlock-Trunk-Unlock-Trunk** | Passive | **Active** |
| Ignition Aouto Door Locks | **Lock-Trunk-Lock-Trunk** | ON | **OFF** |
| Door Lock Pulses | **Lock-Unlock-Trunk-Lock** | Three Second | **.75 Second** |
| Double Pulse | **Unlock-Trunk-Unlock-Lock** | Double Pulse | **Single Pulse** |
| Passive Warning Chirps | **Lock-Trunk-Unlock-Trunk** | ON | **OFF** |
| Reset To Factory Defaults | **Trunk-Lock-Unlock-Trunk** | Three flashes | Three Flashes |

**Entering** T**he Program Menu**
1) Make sure ignition is in the OFF position.
2) Turn the ignition key ON - **leaving key in the ON position.**
3) Press the transmitter button in the appropriate sequence.
4) After ten seconds the system will automatically exit Program Mode.

## Setting 1 - Passive/Active Mode (Factory Default Setting: Active Mode)

**Passive mode** means that the system will automatically arm thirty seconds after
The ignition key is turned off and the last door of the vehicle is closed.
Sometimes referred to as Automatic Arming.
**Active mode** means that the system will not arm until you manually turn it on by
pressing the lock button on your transmitter.
1. Turn the ignition on. Ignition on means normal driving position.
2. Within 10 seconds, press and release the transmitter buttons
      **Lock Unlock Lock Unlock in succession.**
**PASSIVE MODE** is confirmed with one horn chirp sound and **one** light flash.
**ACTIVE MODE** is confirmed with two horn chirp sounds and **two** light flashes.

## Setting 2 - Passive Lock Mode (Factory Default Setting: Active Lock Mode)

**Passive Lock Mode** means that all doors will lock automatically when the system
arms in the passive mode.
**Active Lock Mode** means that doors will lock only with the lock button.
1 Turn the ignition on. Ignition on means normal driving position.
2 Within 10 seconds, press and release the transmitter buttons
      **Unlock Trunk Unlock Trunk in succession.**
**PASSIVE LOCK MODE** is confirmed with one horn chirp sound and **one** parking
light flash.
**ACTIVE LOCK MODE** is confirmed with two horn chirp sounds and **two** parking
Light flashes*.*
**CAUTION:** If the automatic door lock feature is installed and the system is
Programmed to passive lock mode the doors will lock automatically when the
system arms. It is always advisable to remove the ignition key each time you exit
the vehicle.

## Setting 3 - Ignition Auto Locks (Factory Default Setting: Locks Off)

**Ignition Lock Mode** means that all doors will lock automatically two (2)Seconds after
the ignition key is turned on and will unlock automatically when the ignition
key is turned off. This assumes that the keyless entry option has been installed
by your Dealer. Sometimes referred to as Ignition Lock.
1 Turn the ignition on. Ignition on means normal driving position.
2 Within 10 seconds, press and release the transmitter button
**Lock Trunk Lock Trunk** in succession.
**DRIVE LOCK MODE ON** is confirmed with one horn chirp sound and one parking light
flash.
**DRIVE LOCK MODE OFF** is confirmed with two horn chirp sounds and two parking
light flashes.

**Setting 4 - Long Door Lock Pulse** (Factory Default Setting:  Pulse Off)

**Long Door Lock Pulse** means that the system can accommodate the factory central locking systems of import vehicles having vacuum door lock actuators that require a three-second lock pulse.

1 Turn the ignition on.  Ignition on means normal driving position.
2 Within  10 seconds, press and release the transmitter buttons
 **Lock   Unlock   Trunk   Lock**  in succession.

**LONG DOOR LOCK PULSE MODE** is confirmed with  **one** parking light flash.
**SHORT DOOR LOCK PULSE MODE** is confirmed with **two** parking light flashes.


**Setting 5 - Dual Unlock Pulse**  (Factory Default Setting: Dual Unlock Mode Off)

**Dual Unlock Pulse** means that the system can accommodate the factory central locking systems of import vehicles having dual unlock pulse to unlock the driver and passenger doors.

1 Turn the ignition on.  Ignition on means normal driving position.
2 Within 10 seconds, press and release the transmitter buttons
 **Unlock Trunk Unlock Lock**  in succession.

**DUAL PULSE ON** is confirmed with one horn chirp sound and **one** parking light flash.
**DUAL PULSE OFF** is confirmed with two horn chirp sounds and **two** parking light flashes.


**Setting 6 - Passive Warning Chirp** (Factory Default Setting: Warning Chirp Off)

**Passive Warning Chirp** means that in passive mode (4.1) the system gives soft Warming chirp sounds during thirty second arming period after each temporary disarm.

1Turn the ignition on.  Ignition on means normal driving position.
2Within 10 seconds, press and release the transmitter button
 **Lock Trunk Unlock Trunk**  in succession.

**CHIRP ON** is confirmed with one horn chirp sound and one parking light flash.
**CHIRP OFF** is confirmed with two horn chirp sounds and two parking light flashes.
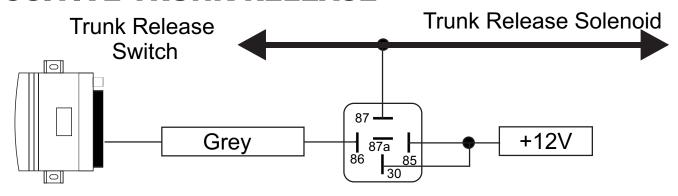
**Setting  7 -Reset to Factory Default**

**To Reset** all programmable features to factory default setting:

1 Turn the ignition on.  Ignition on means normal driving position.
2 Within 10 seconds, press and release the transmitter button
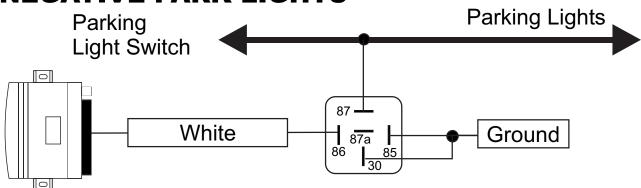 **Trunk Lock Unlock Trunk**  in succession.


**Reset to factory default is confirmed with three horn chirp sounds and three park Light flashes.**

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## POSITIVE TRUNK RELEASE

Trunk Release
Switch

Trunk Release Solenoid

| Grey |

87
87a
86    85
30

+12V

## NEGATIVE PARK LIGHTS

Parking
Light Switch

Parking Lights

| White |

87
87a
86    85
30

Ground

## STARTER KILL

IG2
ACC      IG1
Off        Start

Cut
X

To Starter Motor
or Relay

87
87a
86    85
30

| Orange |